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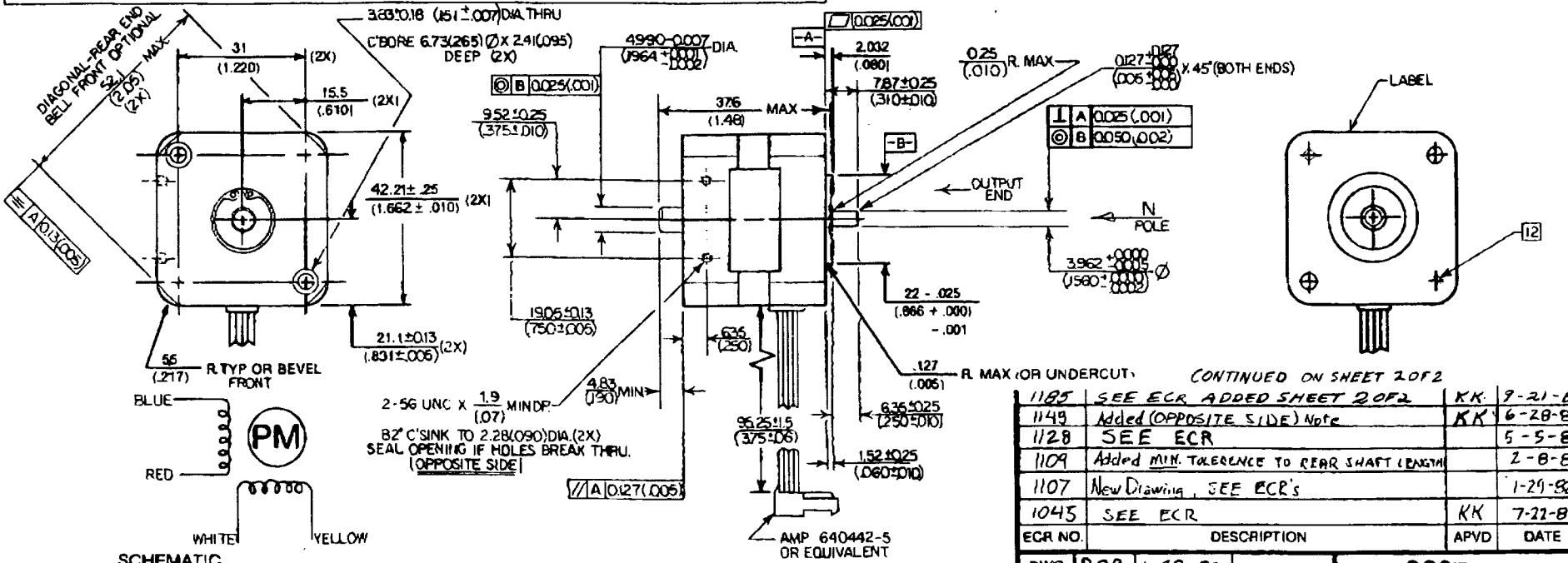
Jameco Part Number 163408

P/N 163408

SPECIFICATIONS:	ROTOR INERTIA: 20 G·CM² (.28 MOISS)
STEPS PER REVOLUTION: 200	HOLDING TORQUE: 864 G·CM (12 OZ·IN) MIN.
STEP ANGLE: 1.8°	DETENT TORQUE: 36 G·CM (0.5 OZ·IN) MIN.
STEP TO STEP ACCURACY (NOTES 1, 2): ± 5 %	DYNAMIC TORQUE: 504 G·CM (7 OZ·IN) NOM. (7)
POSITIONAL ACCURACY (NOTES 1, 3): ± 5 %	INSULATION CLASS: B MIN.
DC PHASE RESISTANCE: 3.8 Ω ± 10 % AT 25°C	BEARINGS: ABEC 3, DOUBLE SHIELDED (8)
PHASE INDUCTANCE: 52 mH ± 20 % AT 1 KHZ	AMBIENT TEMP. RANGE: -7 TO +50 °C
PHASE VOLTAGE: 9.2 VDC	WEIGHT: 0.28 KG (10 OZ) APPROX.
PHASE CURRENT: 2.40 MA (CONT.)	MODEL NO.: 017-200-002-ST
SHAFT RUNOUT: 0.0127 (.0005) T.I.R. MAX.	CLEANLINESS: CLASS 100 OUTPUT END FREE OF CON-
NON REPETITIVE POSITION ACCURACY: ± 1 %	TAMINANTS.
RADIAL PLAY:	
END PLAY: (NOTE 9) 0.003 (.0001) TO 0.025 (.001) W/A 1.36 KG (3 LB) AXIAL LOAD APPLIED TO OUTPUT END OF SHAFT.	

4017-806

NOTES:
1. MEASUREMENTS MADE AT RATED CURRENT EACH PHASE.
2. BETWEEN ANY TWO ADJACENT STEP POSITIONS.
3. MAXIMUM ERROR IN 360°.
4. HIPOT A.C.: 500V. 1 MIN.
5. LEADS: 4 , AWG 26 , 7 STRAND MIN., UL AND CSA APPROVED. PVC INSULATION.
6. INSULATION RESISTANCE: 100 MΩ AT 500 VDC.
7. AT 300 SPS 24 VDC 62 OHM SERIES RESISTOR EACH PHASE.
8. BALL BEARINGS SEAL ON OUTSIDE-OUTPUT END.
9. SHAFT PRELOAD: THE SHAFT SHALL RETURN TO ITS ORIGINAL POSITION WITHIN 0.005 (.0002) AFTER APPLYING AND REMOVING A 1.36 KG (3 LB) AXIAL LOAD TO OUTPUT END OF SHAFT.
10. END BELLS ARE STEEL FOR MAGNETIC SHIELDING.
11. FINISH: SUNCOAT GR-303 (BLACK) OR ENG. APPROVED EQUIVALENT.
12. SCREWS MUST BE FLUSH OR BELOW STEPPER FACE.
13. BURN IN OF 96 HRS. REQUIRED AT 150° F.



SCHEMATIC

SWITCHING SEQUENCE FOR CW ROTATION
FACING MOUNTING END

STEP	BLUE (pin A)	RED (pin B)	WHITE (pin C)	YELLOW (pin D)	PIN 3 NOT USED
0	–	+	+	–	
1	+	–	+	–	
2	+	–	–	+	
3	–	+	–	+	
4	–	+	+	–	

CONTINUED ON SHEET 2 OF 2

ECR NO.	DESCRIPTION	APVD	DATE	REV
1185	SEE ECR ADDED SHEET 2 OF 2	KK	8-21-82	M
1149	Added (OPPOSITE SIDE) Note	KK	6-28-82	L
1128	SEE ECR		5-5-82	K
1109	Added MIN. TOLERANCE TO REAR SHAFT LENGTH		2-8-82	J
1107	New Drawing, SEE ECR's		1-29-82	I
1045	SEE ECR	KK	7-22-81	H

DWG	R.O.B.	1-28-82	
CHKD		1-28-82	
APVD		1-28-82	SCALE: 1X
APVD			

HEAT TREAT

TITLE
MOTOR OUTLINE

APPLIED MOTION PRODUCTS, INC.
SCOTTS VALLEY, CA. 95066

MATERIAL

FINISH
NOTE: 11

DWG. NO. 4017-806

SPECIFICATIONS:

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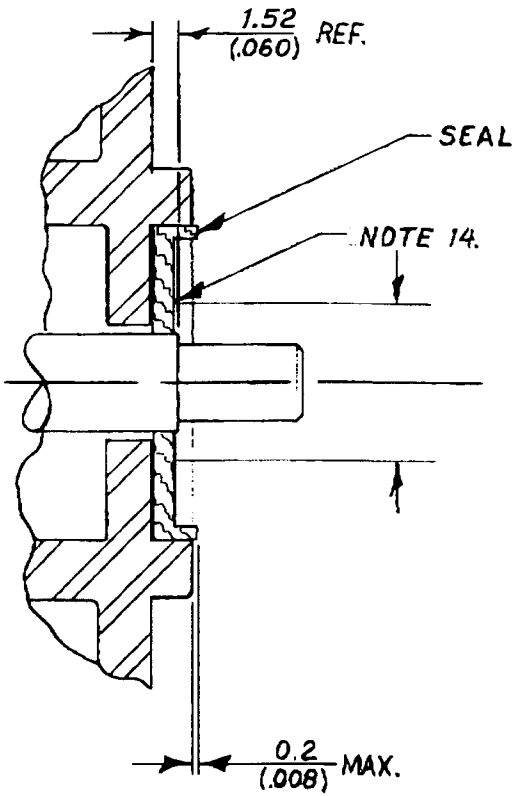
NOTES:
14. SEAL: THE SEAL LIP SHALL NOT EXTEND BEYOND 1.52 (.060) SHAFT DIMENSION FOR A MINIMUM DIA. OF 9.5 (.375).



ECR NO.	DESCRIPTION	APVD	DATE	REV
1199	Changed tolerence on front shaft Length (SEE RUN)		10-13-82	N

DWG	ROB	9-17-82	SCALE 4X
CHKD	KK	9-21-82	
APVD			
APVD			

HEAT TREAT

TITLE: SEAL DETAIL

APPLIED MOTION PRODUCTS, INC.
SCOTTS VALLEY, CA. 95066

MATERIAL

FINISH

DWG. NO. 4017-806 SHEET 2 OF 2